



DELAWARE LEVEL 1 INTERCONNECTION APPLICATION/AGREEMENT

**With Terms and Conditions for Interconnection
(Lab Certified Inverter-Based Small Generator Facilities Less than or Equal to 10 kW)**

The Green Power Connection™ Team
Delmarva Power
A PHI Company
(866) 634-5571 - Phone
gpc-north@pepcoholdings.com

(Send applications via Email or Mail to Delmarva Power, GPC Team)

Mailing Address: 5 Collins Drive, Mail Stop 84CP22, Carneys Point, NJ 08069





PART 1

DELAWARE LEVEL 1 INTERCONNECTION APPLICATION & AGREEMENT

**With Terms and Conditions for Interconnection
(Lab Certified Inverter-Based Small Generator Facilities Less than or Equal to 10 kW)
(Application & Conditional Agreement – to be completed prior to installation)**

INTERCONNECTION CUSTOMER CONTACT INFORMATION

Customer Name: daniel adjocy
Mailing Address: 23 Truman Ct
City: Dover State: DE Zip Code: 19904
Contact Person/Authorized Agent (If other than above): _____
Mailing Address (If other than above): _____
Telephone (Daytime): 3024506581 (Evening): _____
Fax Number: _____ E-Mail Address (Required): daniel_adj@yahoo.com

Alternate Project Contact Information: (if different from Customer-Generator above)

Alternate Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Fax Number: _____ E-Mail Address: _____

If an email is provided for your alternate contact, that contact will receive all email communications.

FACILITY INFORMATION

Facility Address: 23 Truman Ct #205
City: Cheswold State: DE Zip Code: 19936

DPL Account #: 5500 5160 142 Meter #: 1ND343254052

Current Annual Energy Consumption (optional): 14410 kWh

Check if this Facility (building) is, or is going to be, NEW CONSTRUCTION:

Estimated Commissioning Date: 12/16/2017

Energy Source: Solar PV Prime Mover: Photovoltaics



Type of Application: Initial Addition/Upgrade ¹

Initial Rating: DC Generator Total² Nameplate Rating: 10.50 (kW),
AC Inverter Total³ Rating 8.00 kW (kW),
AC System Design Total Capacity⁴: 9.25 (kW) _____ (kVA)

Added Rating (if upgrade): DC Generator Total Nameplate Rating: _____ (kW),
AC Inverter Total Rating _____ (kW),
AC System Design Total Capacity: _____ (kW) _____ (kVA)

Total Rating (if upgrade): DC Generator Total Nameplate Rating: 10.50 (kW),
AC Inverter Total Rating 8.00 (kW),
AC System Design Total Capacity: 9.25 (kW) _____ (kVA)

Generator (or PV Panel) Manufacturer, Model #⁵: Hanwha SolarOne (Qidong) Q.Peak-G4.1/SC300

A copy of Generator nameplate and Manufacturer's Specification Sheet may also be submitted

Number of Generators (or PV Panels): 35

Type of Tracking if PV: Fixed Single Axis Double Axis

Array Azimuth if PV: 332, 152 ° Array Tilt if PV: 33, 37 °

Shading Angles if PV at E, 120°, 150°, S, 210°, 240°, W: _____ ° (Separate with comas)

Inverter Manufacturer⁶: ABB Model Number(s) of Inverter⁷: PVI-3.0-OUTD-S-US-Z-A-RGM
PVI-5000-OUTD-US-Z-A-RGM

Number of Inverters⁸: 2 Inverter Type: Forced Commutated Line Commutated

Ampere Rating: 37.5 Amps_{AC}, Number of Phases: 1 3

Nominal Voltage Rating: 240 V_{AC}, Nominal DC Voltage: 194.46 V_{DC},

Power Factor: 99 %, Frequency: 60 Hz, Efficiency: 96.5 (%)

DPL Taggable, Lockable, Accessible Disconnect⁹: Yes No,

If Yes, Location: Within 10ft of meter

One-line Diagram Attached (Required): Yes No,

Site Plan Attached (Required): Yes No

Do you plan to export power?¹⁰ Yes No, If Yes, Estimated Maximum: 9.25 kW_{AC}

Estimated Gross Annual Energy Production: 13282.1817 kWh

Is the inverter IEEE/UL1741 lab certified? Yes No

(If yes, attach manufacturer's cut sheet showing listing and label information from the appropriate listing authority, e.g. UL 1741 listing. If no, facility is not eligible for Level 1 Application.)

¹ Initial if first time generator request. Addition/Upgrade if this is an add-on to a previously approved system.

² Sum of all generators or PV Panels

³ Sum of all inverters

⁴ This will be your system design capacity based upon your unique system variables.

⁵ If more than one type, please list all manufactures and model numbers.

⁶ If more than one manufacture, please list all.

⁷ If more than one model number, please list all.

⁸ Attach additional sheets as necessary in the event of multiple inverters of various types/sizes

⁹ This is strongly recommended by the utility. Best practice is to have an externally accessible, lockable, disconnect with visible open/close connection and to have appropriate signage on the disconnect, such as 'Solar PV AC Disconnect' (preferably red) and on the meter housing 'Caution, Solar Electric System' (preferably yellow). If the disconnect is not in the immediate vicinity of the meter, please include the disconnect location on the meter signage. This enables the utility and first responders to more quickly deal with an emergency situation.

¹⁰ Yes, if your expected maximum output of the inverter (kW AC) is greater than the lowest load you anticipate at your facility during maximum PV output (kW). The difference would be the amount you may export.



EQUIPMENT INSTALLATION CONTRACTOR

Owner (Customer) Installed: Yes No

Contractor Name: SolarCity DBA Tesla Energy

Mailing Address: 6671 Las Vegas Blvd South, Suite 300

City: Las Vegas State: NV Zip Code: 89119

Telephone (Daytime): 702-703-8951 (Evening): _____

Fax Number: _____ E-Mail Address (Required): interconnection.DE@tesla.com

ELECTRICAL CONTRACTOR

Electrical Contractor Name: Same as Equipment Installation Contractor

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Fax Number: _____ E-Mail Address: _____

License number: _____ Active License? Yes No

Is small generator facility eligible for Net Metering? Yes No

INSURANCE DISCLOSURE

The attached terms and conditions contain provisions related to liability and indemnification, and should be carefully considered by the interconnection customer. The interconnection customer is not required to obtain general liability insurance coverage as a precondition for interconnection approval; however, the interconnection customer is advised to consider obtaining appropriate insurance coverage to cover the interconnection customer's potential liability under this agreement.

CUSTOMER SIGNATURE

I hereby certify that: 1) I have read and understand the terms and conditions which are attached hereto by reference and are a part of this Agreement; 2) I hereby agree to comply with the attached terms and conditions; and 3) to the best of my knowledge, all of the information provided in this application request form is complete and true. I consent to permit the PSC and interconnecting utility to exchange information regarding the generating system to which this application applies.

DocuSigned by:
daniel adjocy
74708D1C051C418...

Interconnection Customer Signature: _____

Date: 11/15/2017

Printed Name: daniel adjocy

Title: Homeowner

.....



Conditional Agreement to Interconnect Small Generator Facility (for EDC use only)

Receipt of the application fee is acknowledged and, by its signature below, the EDC has determined the interconnection request is complete. Interconnection of the small generator facility is conditionally approved contingent upon the attached terms and conditions of this Agreement the return of the attached Certificate of Completion duly executed, verification of electrical inspection and successful witness test or EDC waiver thereof.

EDC Signature: _____ Date: _____

Printed Name: _____ Title: _____



Level 1 Interconnection Agreement
Terms and Conditions for Delaware Interconnection
(Lab Certified Inverter-Based Small Generator Facilities Less than or Equal to 10 kW)

- 1) **Construction of the Small Generator Facility.** The Interconnection Customer may proceed to construct (including operational testing not to exceed 2 hours) the Small Generator Facility once the Conditional Agreement to Interconnect a Small Generator Facility on the preceding page has been signed by the EDC.
- 2) **Final Interconnection and Operation.** The Interconnection Customer may operate the Small Generator Facility and interconnect with the EDC's Electric Distribution System after all of the following have occurred:
 - a) **Electrical Inspection:** Upon completing construction, the Interconnection Customer will cause the Small Generator Facility to be inspected by the local electrical wiring inspector with jurisdiction who shall establish that the Small Generator Facility meets the requirements of the National Electrical Code.
 - b) **Certificate of Completion:** The Interconnection Customer shall provide the EDC with a completed copy of the Interconnection Agreement Certificate of Completion, including evidence of the electrical inspection performed by the local authority having jurisdiction. The evidence of completion of the electrical inspection may be provided on inspection forms used by local inspecting authorities. The Interconnection request shall not be finally approved until the EDC's representative signs the Interconnection Agreement Certificate of Completion.
 - c) EDC has either waived the right to a Witness Test in the Interconnection Request, or completed its Witness Test as per the following:
 - i) Within five (5) business days of the estimated commissioning date, the EDC may, upon reasonable notice and at a mutually convenient time, conduct a Witness Test of the Small Generator Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with applicable codes;
 - ii) If the EDC does not perform the Witness Test within the 5-day period or such other time as is mutually agreed to by the parties, the Witness Test is deemed waived.
- 3) **IEEE 1547.** The Small Generator Facility is installed operated and tested in accordance with the requirements of IEEE standard 1547, "Standard for Interconnecting Distributed Resources with Electric Power Systems", as amended and supplemented, at the time the interconnection request is submitted.
- 4) **Access.** The EDC shall have direct, unabated access to the disconnect switch and metering equipment of the Small Generator Facility at all times. The EDC shall provide reasonable notice to the customer when possible prior to using its right of access.
- 5) **Metering.** Any required metering shall be installed pursuant to appropriate tariffs and tested by the EDC pursuant to the EDC's meter testing requirements pursuant to the Code of Delaware Regulations, Title 26 - Public Utilities – Chapter 10. Electric Utility Restructuring §1014.
- 6) **Disconnection.** The EDC may temporarily disconnect the Small Generator Facility upon the following conditions:
 - a) For scheduled outages upon reasonable notice;
 - b) For unscheduled outages or emergency conditions;



- c) If the Small Generator Facility does not operate in the manner consistent with this Agreement;
 - d) Improper installation or failure to pass the Witness Test;
 - e) If the Small Generator Facility is creating a safety, reliability or a power quality problem; or
 - f) The Interconnection Equipment used by the Small Generator Facility is de-listed by the Nationally Recognized Testing Laboratory that provided the listing at the time the interconnection was approved.
- 7) **Indemnification.** The parties shall at all times indemnify, defend, and save the other party harmless from any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other party's performance or failure to perform under this Agreement on behalf of the indemnifying party, except in cases of gross negligence or intentional wrongdoing by the indemnified party.
- 8) **Limitation of Liability.** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
- 9) **Termination.** This Agreement may be terminated under the following conditions:
- a) By Interconnection Customer - The Interconnection Customer may terminate this application agreement by providing written notice to the EDC.
 - b) By the EDC - The EDC may terminate this Agreement if the Interconnection Customer fails to remedy a violation of terms of this Agreement within 30 calendar days after notice, or such other date as may be mutually agreed to prior to the expiration of the 30 calendar day remedy period. The termination date can be no less than 30 calendar days after the Interconnection Customer receives notice of its violation from the EDC.
- 10) **Modification of Small Generator Facility.** The Interconnection Customer must receive written authorization from the EDC before making any changes to the Small Generator Facility, other than minor changes that do not have a significant impact on safety or reliability of the Electric Distribution System as determined by the EDC. If the Interconnection Customer makes such modifications without the EDC's prior written authorization, the EDC shall have the right to temporarily disconnect the Small Generator Facility.
- 11) **Permanent Disconnection.** In the event the Agreement is terminated, the EDC shall have the right to disconnect its facilities or direct the customer to disconnect its Small Generator Facility.
- 12) **Disputes.** Each party agrees to attempt to resolve all disputes regarding the provisions of these interconnection procedures pursuant to the dispute resolution provisions of the Delaware Standard Small Generator Interconnection Rules, Title 26 - Public Utilities – Chapter 10. Electric Utility Restructuring §1014.
- 13) **Governing Law, Regulatory Authority, and Rules.** The validity, interpretation and enforcement of this Agreement and each of its provisions shall be governed by the laws of the State of Delaware. Nothing in this Agreement is intended to affect any other agreement between the EDC and the Interconnection Customer. However, in the event that the provisions of this agreement are in conflict with the provisions of the EDC's tariff, the EDC tariff shall control.



- 14) **Survival Rights.** This Agreement shall continue in effect after termination to the extent necessary to allow or require either party to fulfill rights or obligations that arose under the Agreement.
- 15) **Assignment/Transfer of Ownership of the Small Generator Facility.** This Agreement shall terminate upon the transfer of ownership of the Small Generator Facility to a new Eligible Customer Generator (owner or tenant), unless the new Eligible Customer Generator notifies the EDC of the change, their agreement to abide by the Terms and Conditions of the original Interconnection Agreement, and so notifies the EDC in writing prior to or coincident with the transfer of electric service to the new customer. Should an interconnection agreement terminate for failure of a new customer to provide appropriate written agreement within 30 days, the EDC shall notify the Public Service Commission the Interconnection Agreement has been terminated.
- 16) **Definitions.** Any capitalized term used herein and not defined shall have the same meaning as the defined terms used in the Delaware Standard Small Generator Interconnection Rule, Title 26 - Public Utilities – Chapter 10. Electric Utility Restructuring §1014.
- 17) **Notice.** Unless otherwise provided in this Agreement, any written notice, demand, or request required or authorized in connection with this Agreement (“Notice”) shall be deemed properly given if delivered in person, delivered by recognized national courier service, or sent by first class mail, postage prepaid, to the person specified below:
- 18) **Important Note.** Running grid-tied generation at a premise will generally raise voltage levels. A proper voltage drop/rise study must be done to insure that resulting voltages do not cause problems at the customer premise and/or to the operation of the inverter. If there are times when generator output will exceed the load of the premise, this will cause voltage rise across the line transformer and service line to the facility. Be sure this is taken into account when doing a voltage drop/rise analysis. If there are other customers that have grid-tied solar and their premise is fed by the same line transformer, be sure to take that into account when considering voltage rise across the line transformer. If the new generation system causes high voltage for other customers fed by the same transformer, it will be the responsibility of the newest generator installation to remediate the high voltage. The normal voltage at the meter without generation is 120 V +/- 5% (or other secondary voltages such as 208, 240, 480, etc.). Be sure to assume the highest voltage (+ 5%) at the meter when doing the voltage drop/rise analysis to insure acceptable voltage at the premise and at the inverter. **The utility is not responsible for elevated voltage caused by the operation of a generator.** The electrical grid has been designed to maintain 120 V +/- 5% (or other standard secondary voltages) during the course of the normal load cycle.

If to Interconnection Customer:

Use the contact information provided in the Agreement for the Interconnection Customer. The Interconnection Customer is responsible for notifying the EDC of any change in the contact party information, including change of ownership.

If to EDC:

Use the contact information provided on the EDC’s web page for small generator interconnection.





PART 2

DELAWARE INTERCONNECTION APPLICATION & AGREEMENT

**With Terms and Conditions for Interconnection
(Lab Certified Inverter-Based Small Generator Facilities Less than or Equal to 10 kW)
(Final Agreement – must be completed after installation and prior to interconnection)**

Certificate of Completion¹¹

INTERCONNECTION CUSTOMER CONTACT INFORMATION

Customer Name: daniel adjocy
Mailing Address: 23 Truman Ct
City: Dover State: DE Zip Code: 19904
Telephone (Daytime): 3024506581 (Evening): _____
Fax Number: _____ E-Mail Address: daniel_adj@yahoo.com

FACILITY INFORMATION

Facility Address: 23 Truman Ct #205
City: Cheswold State: DE Zip Code: 19936
DPL Account #: 5500 5160 142 Meter #: 1ND343254052
Energy Source: Solar PV Prime Mover: Photovoltaics
Inverter Type: Forced Commutated Line Commutated
Number of Inverters: 2
Inverter Manufacturer: ABB Model Number(s) of Inverter: PVI-3.0-OUTD-S-US-Z-A-RGM, PVI-5000-OUTD-US-Z-A-RGM

Rating DC Generator Total¹² Nameplate Rating: 10.50 (kW),
AC Inverter Total¹³ Rating 8.00 kW (kW),
AC System Design Total Capacity¹⁴: 9.25 (kW) _____ (kVA)

Generator (or PV Panel) Manufacturer, Model #¹⁵: Hanwha SolarOne (Qidong) Q.Peak-G4.1/SC300

¹¹ Information entered here on Certificate of Completion (Part 2) must match part 1
¹² Sum of all generators or PV Panels
¹³ Sum of all inverters
¹⁴ This will be your system design capacity based upon your unique system variables.
¹⁵ If more than one type, please list all manufactures and model numbers.



EQUIPMENT INSTALLATION CONTRACTOR

Owner (Customer) Installed: Yes No

Contractor Name: SolarCity DBA Tesla Energy

Mailing Address: 6671 Las Vegas Blvd South, Suite 300

City: Las Vegas State: NV Zip Code: 89119

Telephone (Daytime): 702-703-8951 (Evening): _____

Fax Number: _____ E-Mail Address: interconnection.DE@tesla.com

FINAL ELECTRIC INSPECTION AND INTERCONNECTION CUSTOMER SIGNATURE

The Small Generator Facility is complete and has been approved by the local electric inspector having jurisdiction. A signed copy of the electric inspector's form indicating final approval is attached. The Interconnection Customer acknowledges that it shall not operate the Small Generator Facility until receipt of the final acceptance and approval by the EDC as provided below.

DocuSigned by:
Daniel Adjocy
74708D1D051D416...

Signed: _____ Date: 11/15/2017
(Signature of interconnection customer)

Printed Name: daniel adjocy

Check if copy of signed electric inspection form is attached

ACCEPTANCE AND FINAL APPROVAL FOR INTERCONNECTION (for EDC use only)

The interconnection agreement is approved and the Small Generator Facility is approved for interconnected operation upon the signing and return of this Certificate of Completion by EDC:

Electric Distribution Company waives Witness Test? (Initial) Yes (cac) No (_____) If not waived, date of successful Witness Test: _____ Passed: (Initial) (_____)

EDC Signature: Christopher Digitally signed by Connie Christopher
DN: cn=Connie Christopher, o, ou,
email=constance.christopher@delmarva.co
m, c=US
Date: 2018.03.07 15:09:25 -05'00' Date: 03/07/2018

Printed Name: Connie Christopher Title: Account Coordinator



MIDDLE DEPARTMENT INSPECTION AGENCY, INC.

Certifies that the electrical wiring to the electrical equipment listed below has been examined and is approved as being in accord with the National Electrical Code, applicable governmental, utility and Agency rules in effect on the date noted below and is issued subject to the following conditions.

Owner: Adjocy

Date: 12-29-17

Occupant: same

Location: 23 Truman Ct

Occupancy: Single Family Dwg.

Dover, Kent Co. DE

Applicant: Solar City
178 Venture Dr
Seaford DE 19973

No.

19803846995EL

Equipment:

10.5 KW Solar System



This certificate applies to the electrical wiring to the electrical equipment listed above and the installation inspected as of the above noted date based on a visual inspection. No warranty is expressed or implied as to the mechanical safety, efficiency or fitness of the equipment for any particular purpose. This certificate shall be valid for a period of one year from the above noted date. Should the electrical system to which this certificate applies be altered in any way, including but not limited to, the introduction of additional electrical equipment and/or the replacement of any of the components installed as of the above noted date, this certificate shall be

immediately null and void. This certificate applies only to the use, occupancy and ownership as indicated herein. Upon a change in the use, occupancy or ownership of the property indicated above, this certificate shall be immediately null and void. In the event that this certificate becomes invalid based upon the above conditions, this certificate may be revalidated upon reinspection by Middle Department Inspection Agency, Inc. An application for inspection must be submitted to Middle Department Inspection Agency, Inc. to initiate the inspection and revalidation process. A fee will be charged for this service.